

INFORMATION DISCLOSURE STATEMENT

Applicant : Elers
App. No. : 10/719,277
Filed : November 20, 2003
For : MULTILAYER METALLIZATION
Examiner : Unknown
Group Art Unit : 2811

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed is form PTO-1449 listing thirty-two (32) references. Copies of disclosed U.S. patents and/or publications are not included pursuant to PTO waiver of the requirement under 37 C.F.R. § 1.98(a)(2)(i) for applications filed after June 30, 2003. Copies of other references, if listed, are enclosed.

This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: May 10, 2004

By: Adeel S. Akhtar

Adeel S. Akhtar
Registration No. 41,394
Attorney of Record
Customer No. 20,995
(415) 954-4114



PATENT

Case Docket No. ASMMC.052AUS

Date: May 10, 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Elers
Appl. No. : 10/719,277
Filed : November 20, 2003
For : MULTILAYER
METALLIZATION
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I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

May 10, 2004

(Date)

Adeel S. Akhtar

Adeel S. Akhtar, Reg. No. 41,394

TRANSMITTAL LETTER

Mail Stop Amendment

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Dear Sir:

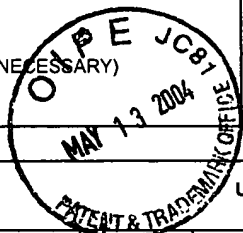
Enclosed for filing in the above-identified application are:

- (X) An Information Disclosure Statement.
- (X) A PTO Form 1449 listing thirty-two (32) references of which twelve (12) are enclosed.
- (X) The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.
- (X) Return prepaid postcard.

Adeel S. Akhtar

Adeel S. Akhtar
Registration No. 41,394
Attorney of Record
Customer No. 20,995
(415) 954-4114

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	ATTY. DOCKET NO. ASMMC.052AUS	APPLICATION NO. 10/719,277
	APPLICANT Elers	
	FILING DATE November 20, 2003	GROUP 2811



U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1	4,450,472	5/22/84	Tuckerman et al.			
	2	4,938,742	7/3/90	Smits			
	3	5,218,515	6/8/93	Bernhardt			
	4	5,241,450	8/31/93	Bernhardt et al.			
	5	5,461,003	10/24/95	Havemann et al.			
	6	5,619,177	4/8/97	Johnson et al.			
	7	5,777,292	7/7/98	Grigorov et al.			
	8	5,901,037	5/4/99	Hamilton et al.			
	9	5,936,295	8/10/99	Havemann et al.			
	10	6,060,383	5/9/00	Nogami et al.			
	11	6,272,169 B1	8/7/01	Boswell, Jr. et al.			
	12	6,482,733	11/19/02	Raaijmakers et al.			
	13	6,534,395	3/18/03	Werkhoven et al.			
	14	6,629,425	10/7/03	Vaiyapuri et al.			
	15	6,686,271	2/3/04	Raaijmakers et al.			
	16	6,699,783	3/2/04	Raaijmakers et al.			
	17	6,703,708	3/9/04	Werkhoven et al.			
	18	6,727,169	4/27/04	Raaijmakers et al.			12/15/03
	19	US 2003/0032281 A1	2/13/03	Werkhoven et al.			
	20	US 2003/0143839 A1	7/31/03	Raaijmakers et al.			11/22/02

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
✓	21	WO 98/03996	1/29/98	PCT				
✓	22	WO 98/03997	1/29/98	PCT				
✓	23	WO 98/04109	1/29/98	PCT				
✓	24	WO 03/053895 A2	7/3/03	PCT				

EXAMINER

DATE CONSIDERED

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. ASMMC.052AUS	APPLICATION NO. 10/719,277
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Elers	
(USE SEVERAL SHEETS IF NECESSARY)		FILING DATE November 20, 2003	GROUP 2811

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
✓ 25	Blackburn, J.M. et al., "Deposition of conformal copper and nickel films from supercritical carbon dioxide," Science 294(5540) (2001) pp. 141-145
✓ 26	Cabanas, A. et al., "Alcohol-Assisted Deposition of Copper Films from Supercritical Carbon Dioxide," J. Chemistry of Materials 15(15) (2003) pp. 2910-2916
✓ 27	Dagani, Ron, "Dry Spinning of Carbon Nanotube Yarns"
✓ 28	Kondoh, E. et al., "Characteristics of copper deposition in a supercritical CO ₂ fluid," Microelectronic Engineering 64(1-4) (2002) pp. 495-499
✓ 29	Lesiak, B. et al., "Characterization of Polyacetylene and Polyacetylene Doped with Palladium," Polish J. Chem., 74:847-865 (2000)
✓ 30	J.-Q. Lü et al., Advanced Metallization Conference 2000 (ULSI XVI), pp. 515-521.
✓ 31	Shirakawa, Hideki et al., "Synthesis of Electrically Conducting Organic Polymers: Halogen Derivatives of Polyacetylene, (CH) _x ," J.C.S., Chem. Comm., 578-580 (1977)
✓ 32	Tay, Andrew A.O., "Analytical Study on A MEMS Micro-Cooling System for Cooling of Flip Chips," Conf. on Design, Characterization, and Packaging for MEMS and Microelectronics, Queensland, Australia, Oct. 99, SPIE Vol. 3893, pp. 82-93
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EXAMINER	DATE CONSIDERED
<p>*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.</p>	